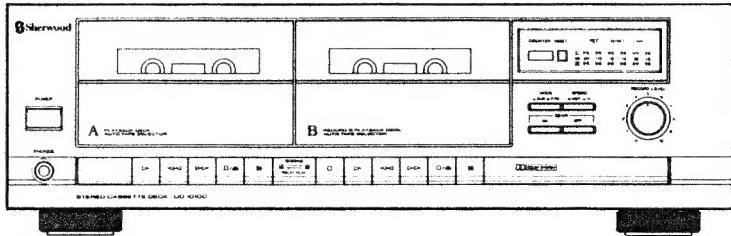
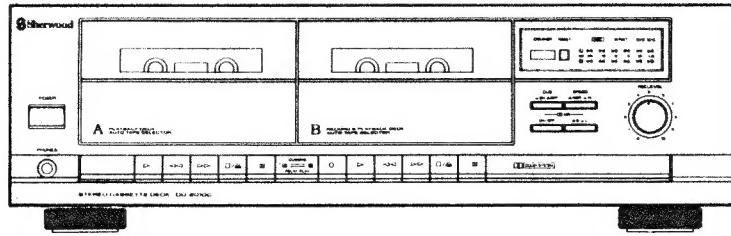


# SERVICE MANUAL

## DD-1010C STEREO DOUBLE CASSETTE DECK



## DD-2010C STEREO DOUBLE CASSETTE DECK



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 **Sherwood**

# Safety Precaution

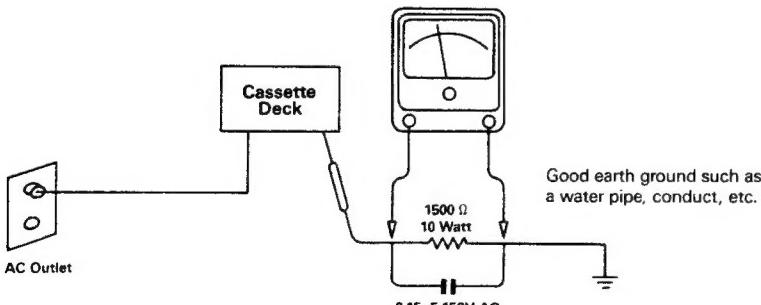
## WARNING

Service should not be attempted by anyone unfamiliar with the necessary precautions on this player. The following precautions are necessary during servicing.

1. Many electrical and mechanical parts in this player have special characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristic are identified in this manual and its supplements: electrical components having such features are identified by a  $\Delta$  in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire or other hazards.
2. Before returning the set to the customer, always perform an AC leakage current check on the exposed metallic parts of the cabinet, such as

terminals, screwheads, metal overlays, etc. to be sure the set is safe to operate without danger of electrical shock. Plug the AC line cord directly into a 120V AC outlet (120V Version only). (Do not use a line isolation transformer during this check.) Use an AC voltmeter having 5000  $\Omega$  per volt or more sensitivity in the following manner: Connect a 1500  $\Omega$  10 watt resistor paralleled by a 0.15 $\mu$ F, 150V AC capacitor, between a known good earth ground (water pipe, conduct, etc.) and the exposed metallic parts, one at a time. Measure the AC voltage across the combination of 1500  $\Omega$  resistor and 0.15 $\mu$ F capacitor. Reverse the AC plug at the AC outlet and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed 0.3 volts RMS. This corresponds to 0.2mA AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.

**AC VOLT METER**  
(5000  $\Omega$  per volt or more sensitivity)  
Reading should not exceed 0.8V



Place this probe on each exposed metallic parts.

## Specifications (DD-1010C only)

Type .....	Soft touch front loading stereo double cassette deck with Dolby NR system.
Track system .....	4 track, 2 channel stereo playback (Deck A) and Recording/Playback (Deck B)
Recording system .....	AC bias system (bias frequency: 105 kHz)
Erasing system .....	AC system
Tape speed .....	1 7/8 ips (4.76cm/sec.)
Heads .....	Hard permalloy recording/playback head $\times$ 1 Hard permalloy playback head $\times$ 1 Double gap erasing head $\times$ 1
Motor .....	Electronic governor controlled DC motor
Wow and flutter .....	Less than 0.15% (WRMS), 0.30% (DIN)
Fast winding time .....	Approximately 120 seconds with C-60 cassette tape
Frequency Response .....	Normal tape 30-16,000Hz, $\pm$ 5 dB CrO <sub>2</sub> tape 35-16,000Hz, $\pm$ 5 dB Metal tape 35-16,000Hz, $\pm$ 5 dB
-20 dB REC .....	Dolby NR 62 dB (Normal tape) (Weighted) 64 dB (CrO <sub>2</sub> tape) 64 dB (Metal tape)
0 dB Rec/PB .....	Dolby NR OFF 53 dB (Normal tape) (Weighted) 55 dB (CrO <sub>2</sub> tape) 55 dB (Metal tape)
Signal to noise ratio .....	Less than 1.3% at 1kHz, 0 dB REC/PB
(Rec/PB) .....	Line 70mV/47k ohms Line 500mV/2.7k ohms
3rd harmonic distortion .....	Dolby NR system. Relay playback, Synchronous dubbing High speed dubbing selector LED peak level display (5 LED $\times$ 2) Auto tape selector Remote control operations (Pause) 13 Watts
Input sensitivity/Impedance .....	
Output level/Impedance .....	
Built-in features .....	
Power consumption .....	
Power requirements:	
A: 120V 50Hz for USA/Canadian version	
B: 120V/220V 60Hz/50Hz for multi-voltage version (switchable)	
C: 220V 50Hz for general European version	
D: 220V 50Hz for Germanian & Italian version	
E: 240V 50Hz for British & Australian version	
F: 220V 50Hz for Swiss & Scandinavian version	
Dimensions .....	440(W) $\times$ 142(H) $\times$ 245(D) mm, 17.3(W) $\times$ 5.6(H) $\times$ 9.6(D) inches
Weight(net) .....	4.7kg (10 lbs, 5.4 oz)

### Note:

\* Specifications and the design subject to change without notice for improvements.

\* Recommended design reference tape (TDK) AD-C60(normal), SA-C60 (CrO<sub>2</sub>), MA-C60 (metal) Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the European standard, and provides information on regional circuit modification through use of alternate schematic or wiring diagrams and information on regional component variations through use of parts list.

\*Dolby Noise Reduction manufactured under licence from Dolby Laboratories Licensing Corporation.

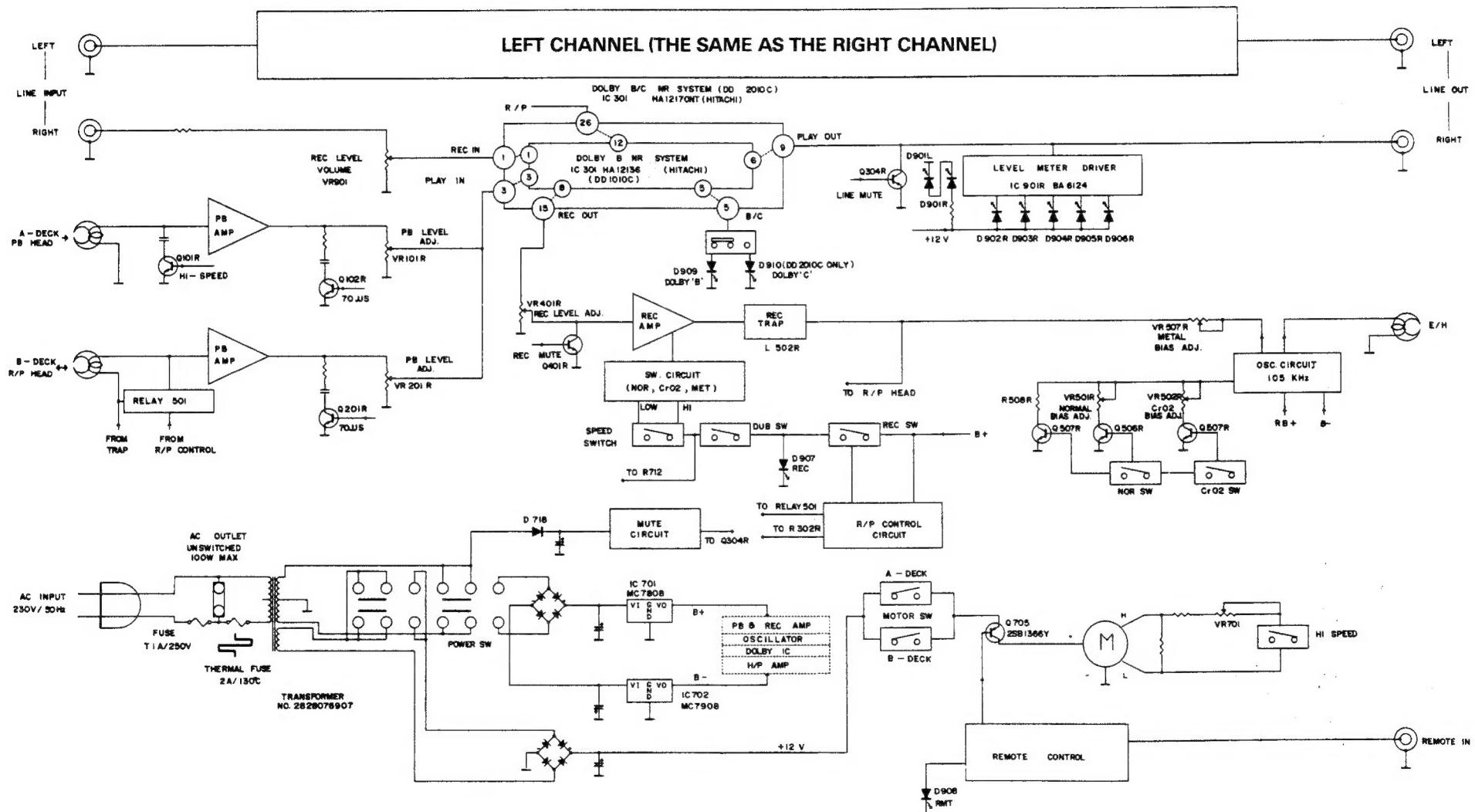
## ***Specifications (DD-2010C only)***

Type .....	Soft touch front loading stereo double cassette deck with Dolby B-C NR system.
Track system .....	4 track, 2 channel stereo playback (Deck A) and recording/playback (Deck B)
Recording system .....	AC bias system (bias frequency: 105kHz)
Erasing system .....	AC system
Tape speed .....	1-7/8 ips (4.76cm/sec.)
Heads .....	Hard permalloy recording/playback head×1 Hard permalloy playback head ×1 Double gap, erasing head×1
Motor .....	Electronic governor controlled DC motor
Wow and flutter .....	Less than 0.15% (WRMS), 0.30% (DIN)
Fast winding time .....	Approximately 120 seconds with C-60 cassette tape
Frequency Response .....	Normal tape 30-16,000Hz, ± 5 dB CrO <sub>2</sub> tape 30-16,000Hz, ± 5 dB
-20 dB REC .....	30-16,000Hz, ± 5 dB
Metal tape .....	30-16,000Hz, ± 5 dB
0 dB REC/PB .....	Dolby C NR 69 dB (Normal tape) (Weighted) 71 dB (CrO <sub>2</sub> tape)
Signal to noise ratio .....	71 dB (Metal tape) (REC/PB) 62 dB (Normal tape) (Weighted) 64 dB (CrO <sub>2</sub> tape)
Dolby B NR .....	64 dB (Metal tape) Dolby NR OFF 53 dB (Normal tape) (Weighted) 55 dB (CrO <sub>2</sub> tape)
3rd harmonic distortion .....	55 dB (Metal tape) Less than 1.3% at 1kHz, 0 dB REC/PB
Input sensitivity/Impedance .....	Line 70mV/47k ohms
Output level/Impedance .....	Line 500mV/2.7k ohms
Built-in features .....	Dolby B-C NR system Relay playback, Synchronous dubbing High speed dubbing selector LED peak level display (5 LED ×2) Auto tape selector Remote control operations (Pause) 13 Watts
Power consumption .....	
Power requirements;	
A: 120V 50Hz for USA/Candian version	
B: 120V/220V 60Hz/50Hz for multi-voltage version (switchable)	
C: 220V 50Hz for general European version	
D: 220V 50Hz for Germanian & Italian version	
E: 240V 50Hz for British & Australian version	
F: 220V 50Hz for Swiss & Scandinavian version	
Dimensions .....	440(W) × 142(H) × 245(D) mm, 17.3(W) × 5.6(H) × 9.6(D) inches
Weight(net) .....	4.7kg (10 lbs, 5.4 oz)

### **Note:**

- \* Specifications and the design subject to change without notice for improvements.
- \* Recommended design reference tape (TDK) AD-C60 (normal), SA-C60 (CrO<sub>2</sub>), MA-C60(metal) Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the European standard, and provides information on regional circuit modification through use of alternate schematic or wiring diagrams and information on regional component variations through use of parts list.
- \*Dolby Noise Reduction manufactured under licence from Dolby Laboratories Licensing Corporation.

## Block Diagram



# Alignment Procedures

## 1. Before Measurements and Adjustment

The following general conditions apply to the electrical measurements and adjustments unless especially stated otherwise.

- Dolby NR switch off.
- Volume control: Recording level VR901 max.
- Use 500mV (200nwb/m) for 0 dB as the standard level of the unit.
- Test tape
  - TCC-154 Azimuth(12.5kHz, -20dB)
  - TCC-122 Tape speed(3kHz, -10dB)
  - TCC-130 Playback level (Dolby NR ref. tape 400Hz, 0dB)
  - TCC-184 Playback frequency response
- Reference Tape
  - Normal TDK AD-60
  - CrO<sub>2</sub> TDK SA-60
  - Metal TDK MA-X60

## 2. Instrument required

- Audio frequency oscillator
- ACVM or dual channel, mV-meter
- Wow/Flutter meter
- Oscilloscope

## Playback section

Adjustment	Test tape	Mode	Apply signal to	Measure on	Read on	Adjust with	Adjust to
Head Azimuth	TCC-154 12.5kHz (A.BEX)	Play (A & B Deck)		Line out	ACmV-meter Oscilloscope	Head adjusting screw	Max. *a • Lissajous' figure become a straight line with an angle 45 degrees
Playback Speed at normal	TCC-112 3kHz -10dB (A.BEX)			Wow and Flutter Meter	B Deck VR701	*b 3000Hz ± 30Hz	
Playback Level	TCC-130 400Hz 0dB (A.BEX)			ACmV-meter	A Deck VR101L/R	500mV	
Playback frequency response	TCC-184B 12.5kHz, 1kHz, 60Hz (A.BEX)				B Deck VR201L/R		See graph Fig. 2 freq. response

## Recording section

Adjustments	Test tape	Mode	Apply signal to	Measure on	Read on	Adjust with	Adjust to
Bias OSC Frequency	MA-X60 (TDK)	Rec/Pause		White color lead wire of CNT501	Frequency Counter	L501	105kHz ± 400Hz
105kHz trap suppression	MA-X60 (TDK)			TP403L/R	ACmV-meter Oscilloscope	L502L/R	Minimize the reading on ACVM
Target value Bias	Metal MA-X60			TP201L/R	VR503L/R	9mV	
	CrO <sub>2</sub>					VR502	5.5mV
	Normal					VR501	3.4mV

Adjustment	Test tape	Mode	Apply signal to	Measure on	Read on	Adjust with	Adjust to
Recording Level	AD-60 (TDK)		400Hz to Line in	Line out	ACmV-meter	LF Generator	50mV
			TP402L/R	VR401L/R		About 15mV	
					See Target Value Bias	*C	If it necessary repeat bias adjustment
Bias	MA-X60 SA-60 AD-60 (TDK)		400Hz to Line in	Line out	4kHz-6.3kHz 10kHz-12kHz 14kHz-16kHz to Line in		
					Recording number of Frequency with the same input voltage and play them back.		
					400Hz to Line in	Dolby level Point	ACmV-meter Oscilloscope
Level Meter	Arbitrary Tape		19kHz suppression	Line out	ACmV-meter	LF Generator	500mV
				Rec/Pause With Dolby NR on	19kHz to Line in	ACmV-meter Oscilloscope	L301L/R
							Minimize the reading on ACVM

### Note:

- \*a. Prior to any measurement or adjustment with the tape running, heads and tape guides should be degaussed and cleaned. Reference below the figure.
- \*b. The maximum permissible speed variation ± 0.5%. Moreover the Wow and Flutter can be read. This value should not be exceed 0.2%.
- \*c. When the channel is adjusted, this may slightly affect the adjustment of the other channel. If the adjustment is correct, the frequency response curve will be similar to curve b in figure 1, distortion below 3%.

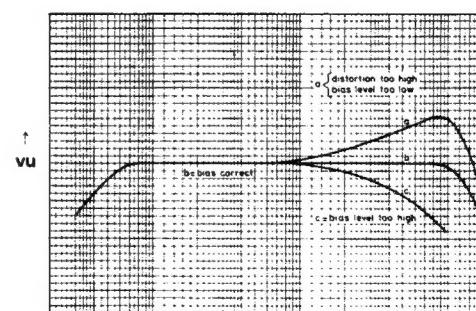


Fig. 2

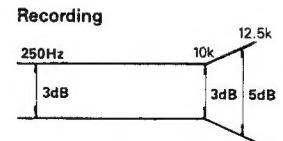
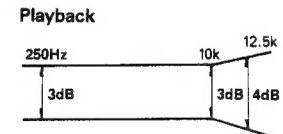
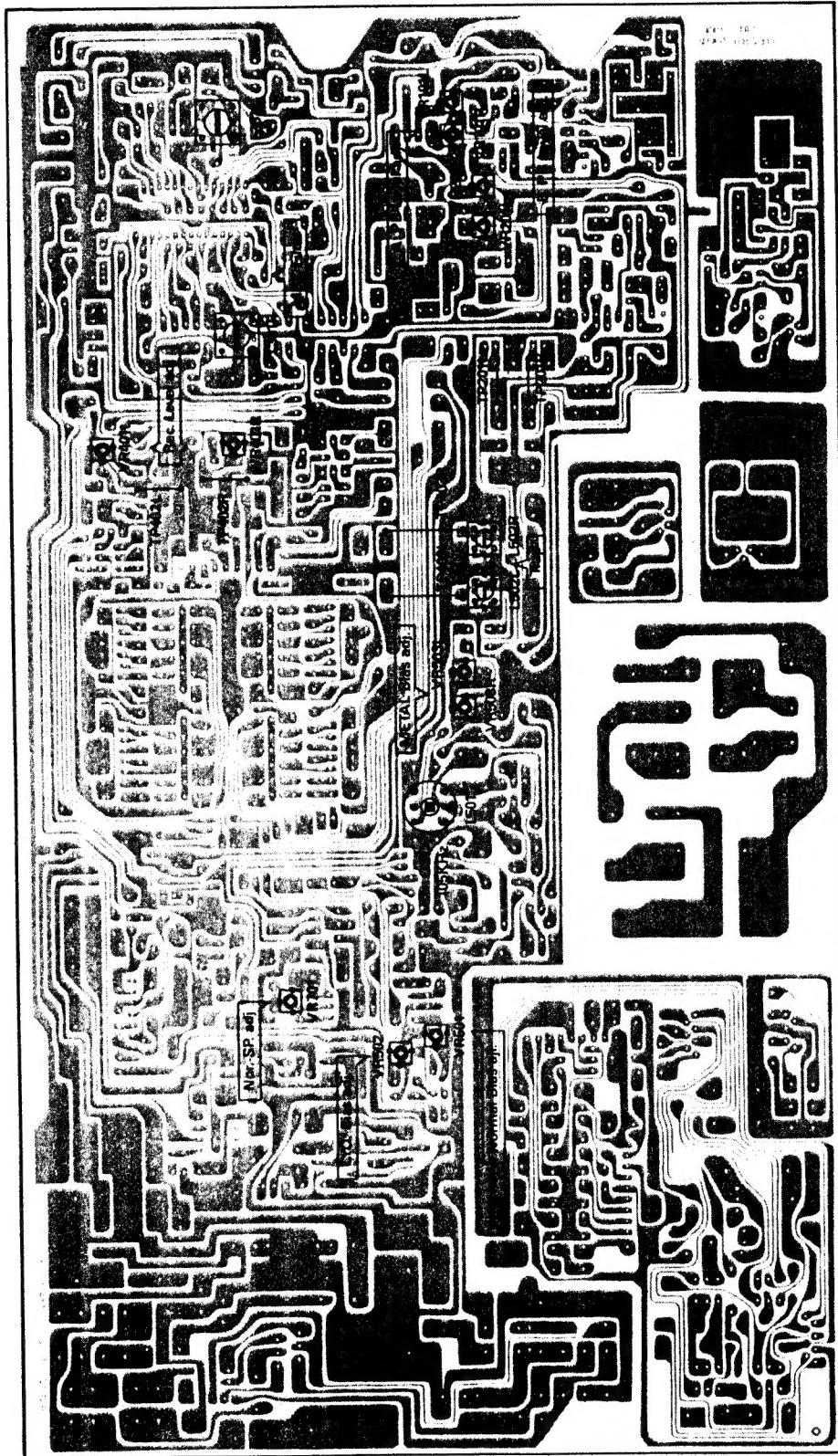


Fig. 1 Allowable Playback/Recording Frequency Response Zone

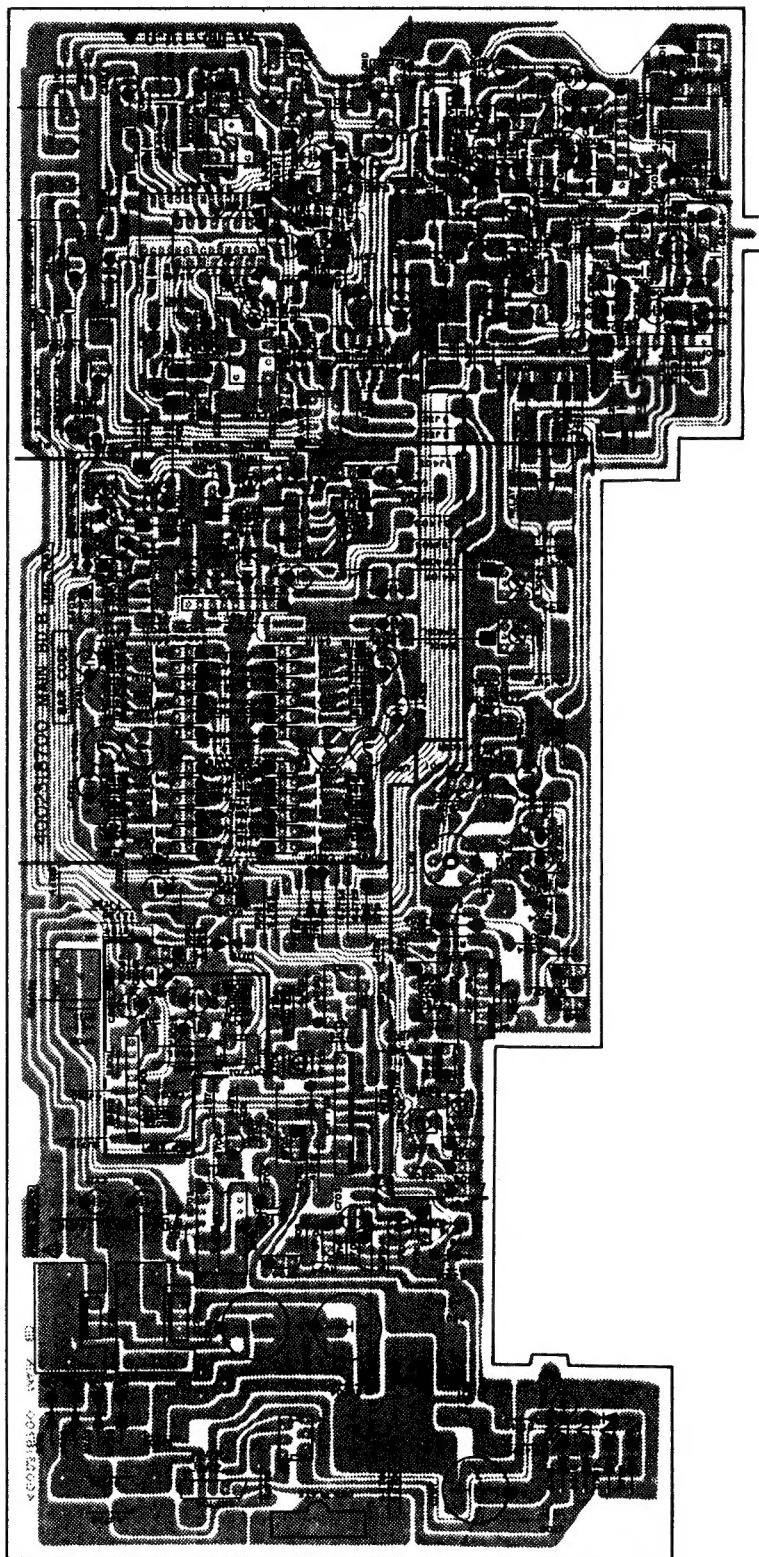
**Alignment Point**



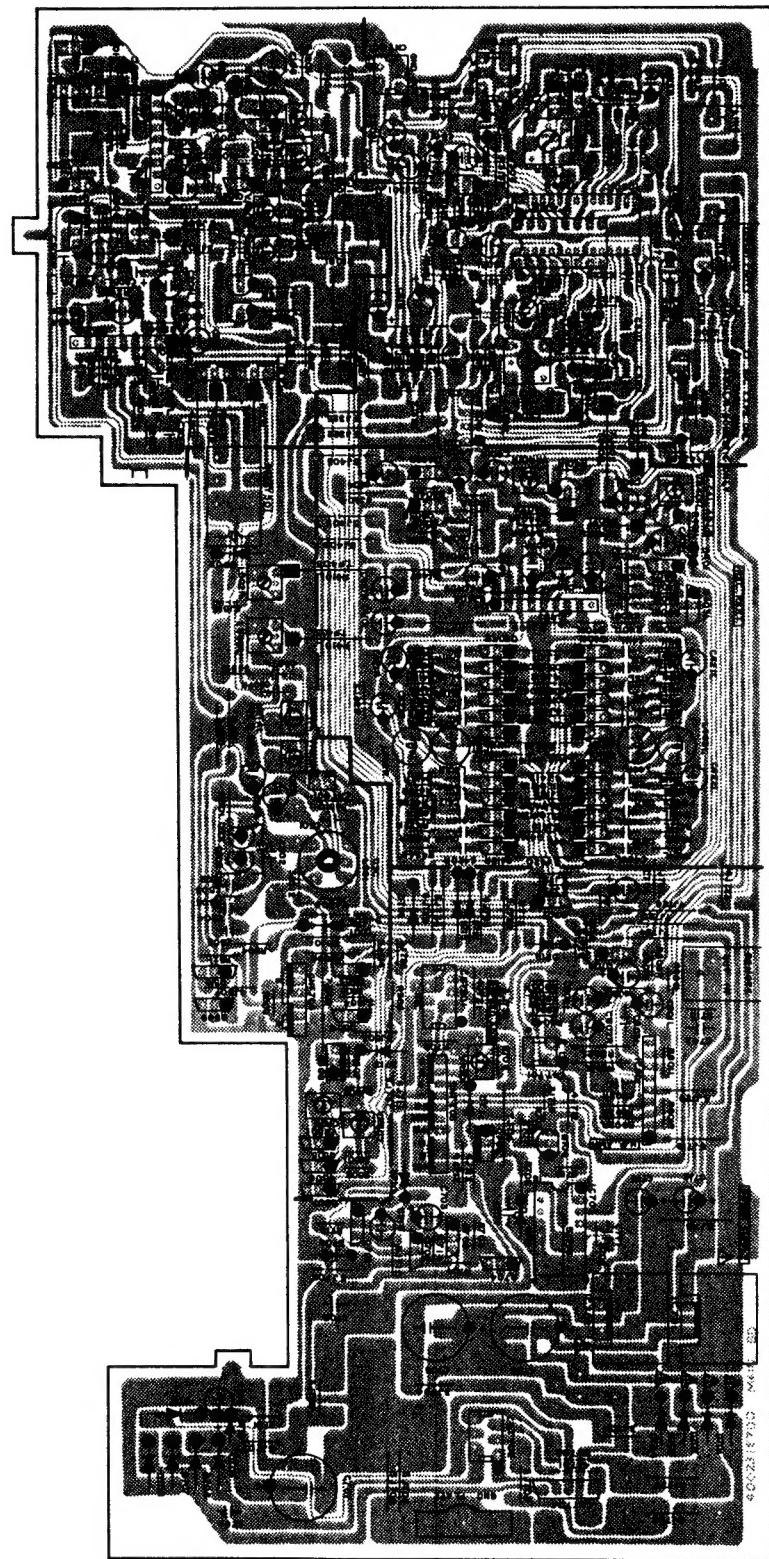
## **P.C. Boards (Top & Bottom Views)**

**MAIN P.C. BOARD 4002318700**

**(TOP VIEW)**

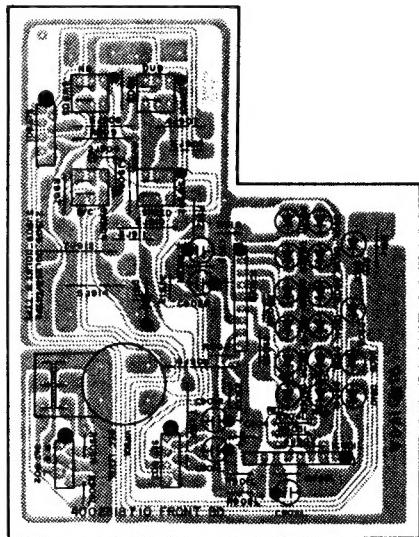


**(BOTTOM VIEW)**

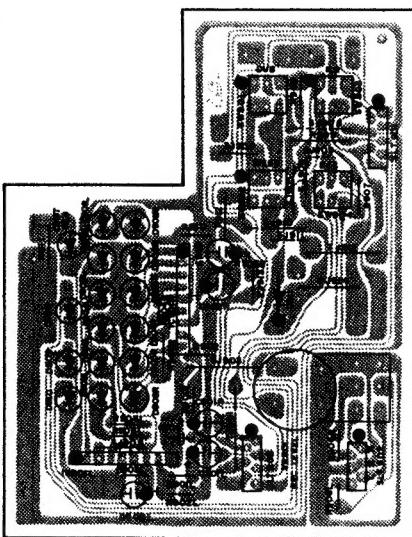


### **FRONT P.C. BOARD 4002318710**

(TOP VIEW)

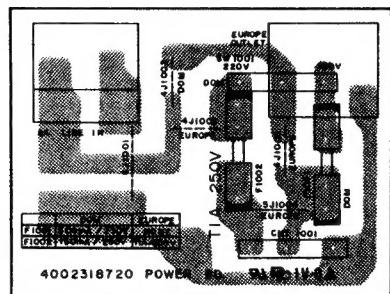


(BOTTOM VIEW)

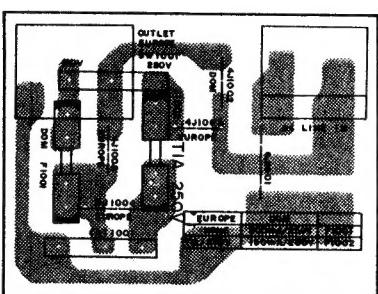


### **POWER P.C. BOARD 4002318720**

(TOP VIEW)

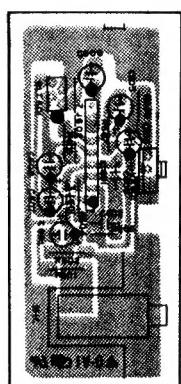


(BOTTOM VIEW)

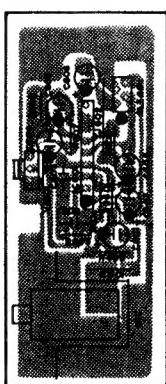


### **MIC P.C. BOARD 4002318730**

(TOP VIEW)

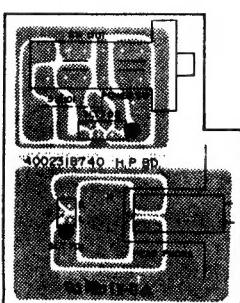


(BOTTOM VIEW)

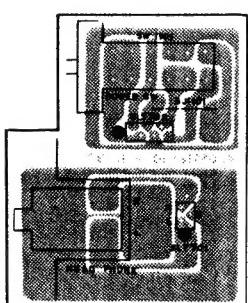


### **HP P.C. BOARD 4002318740**

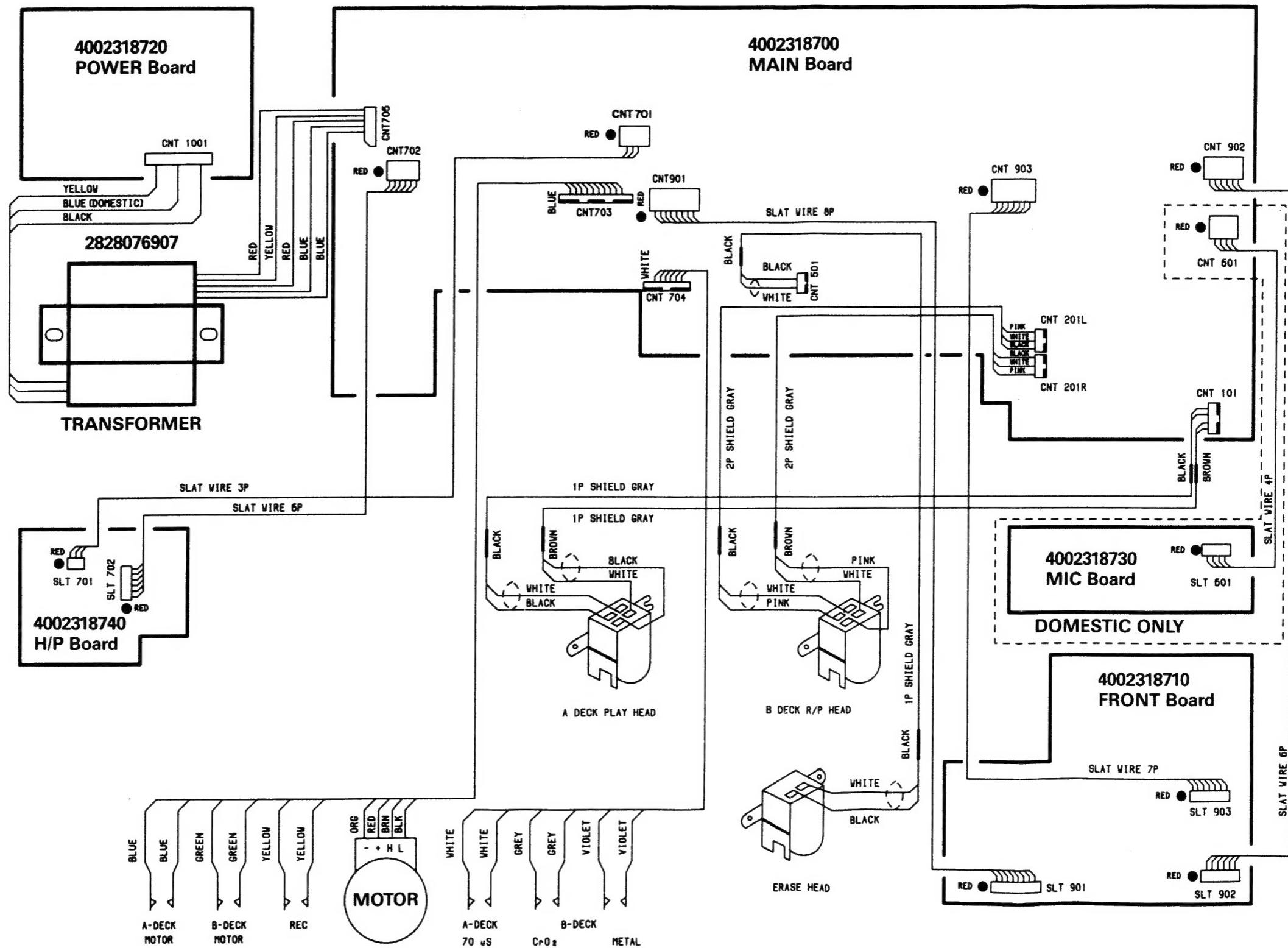
(TOP VIEW)



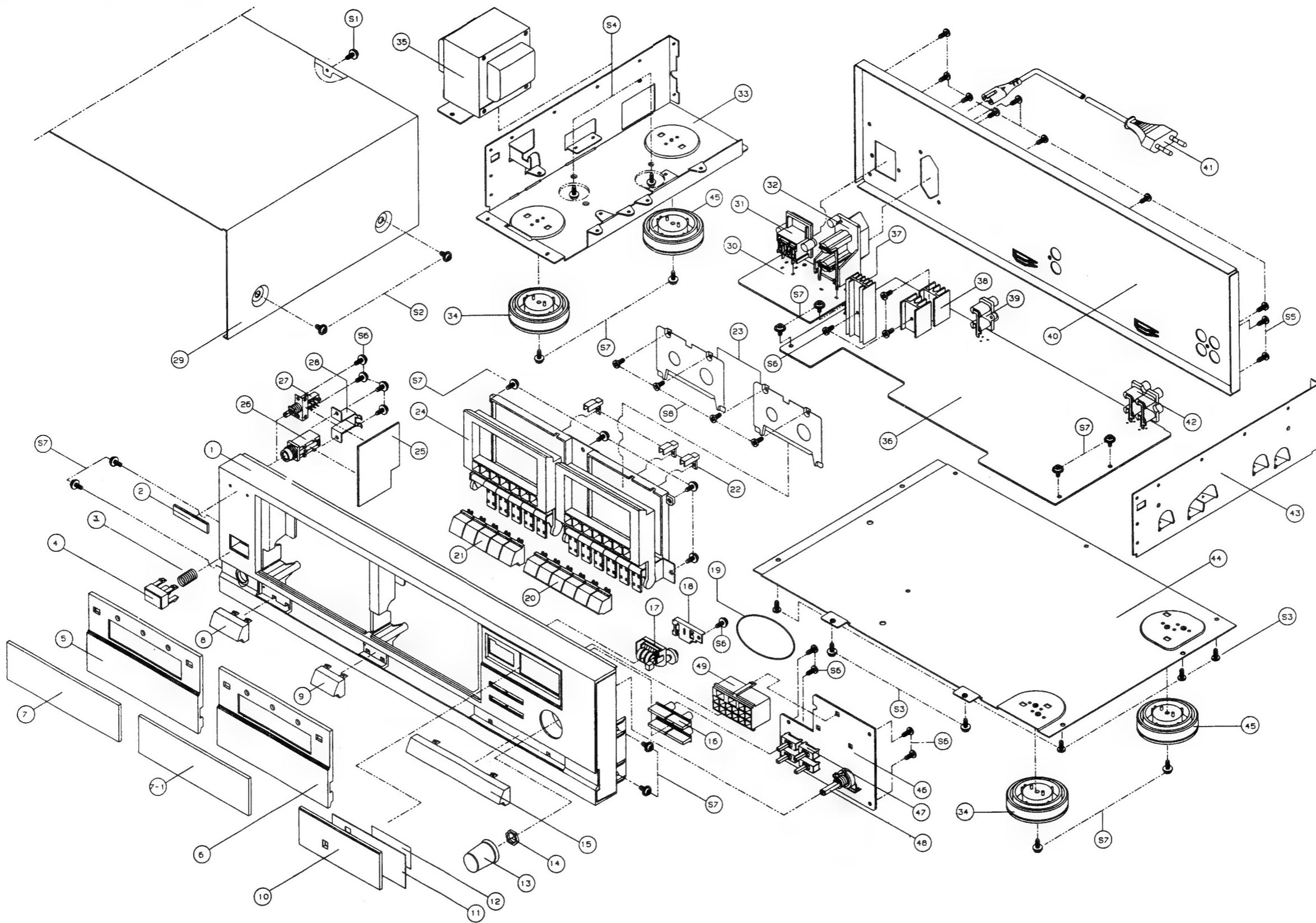
(BOTTOM VIEW)



## Wiring Diagram



## **Exploded View (Cabinet & Chassis)**

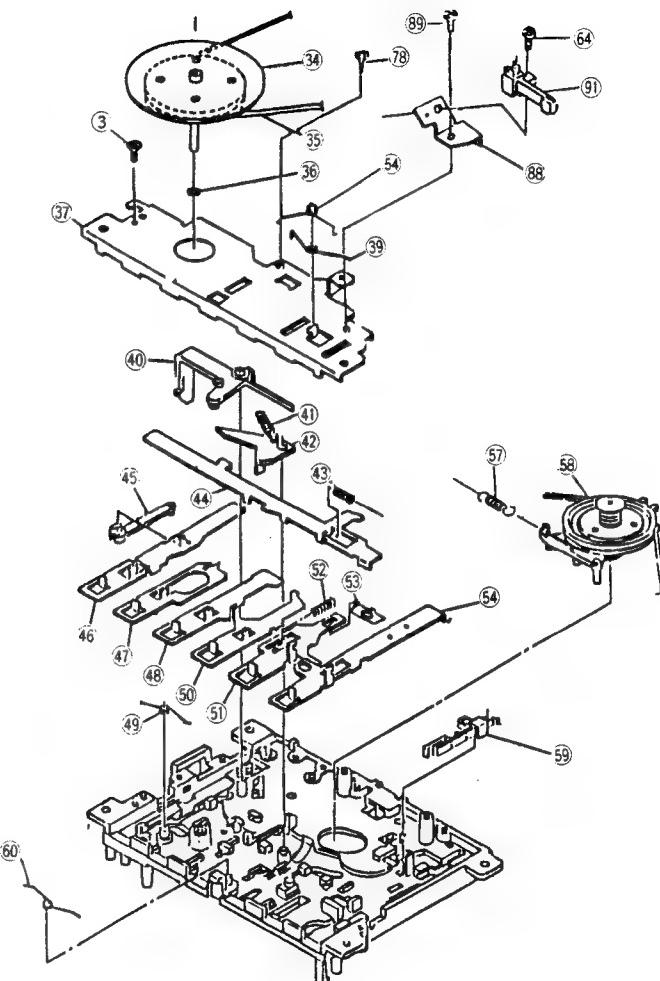
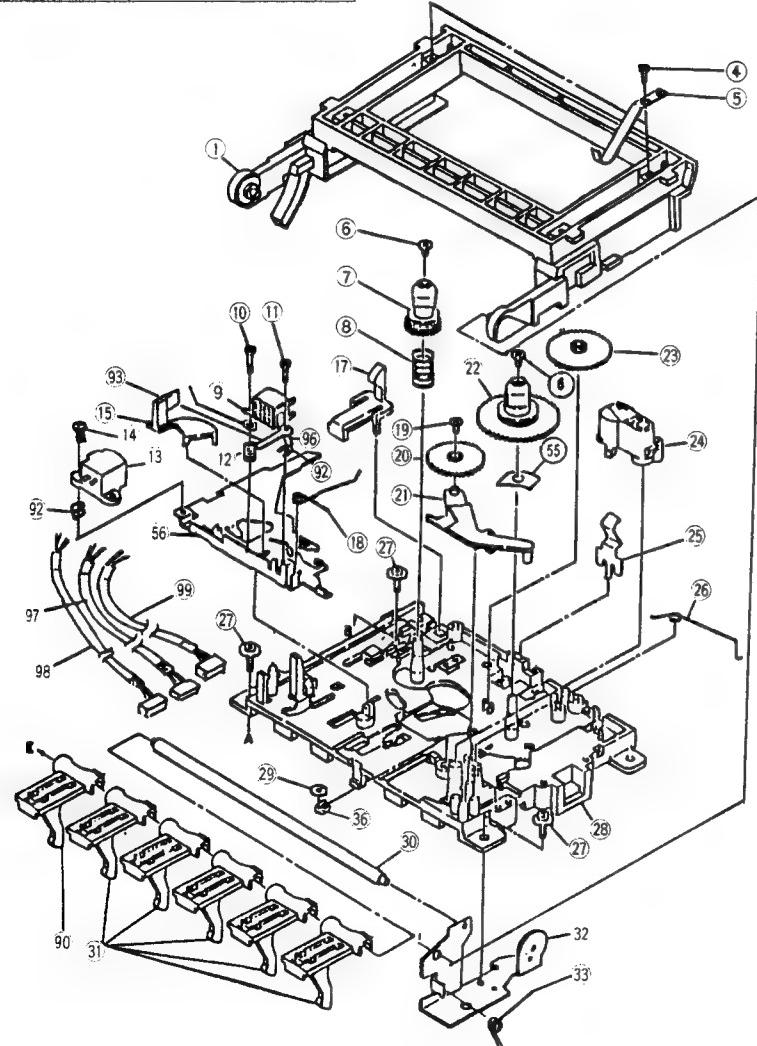


# Part List & Exploded View of Deck Mechanism (I)

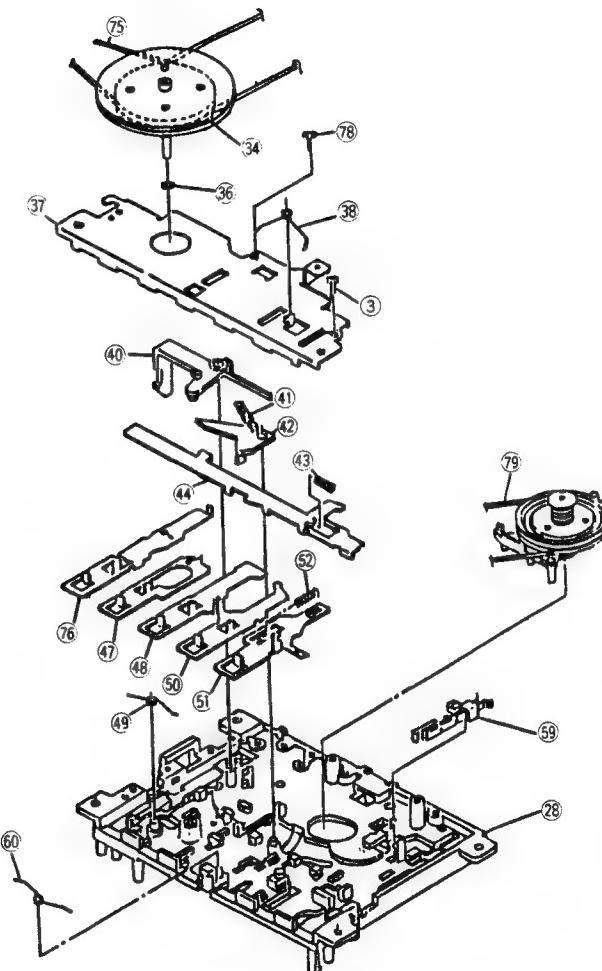
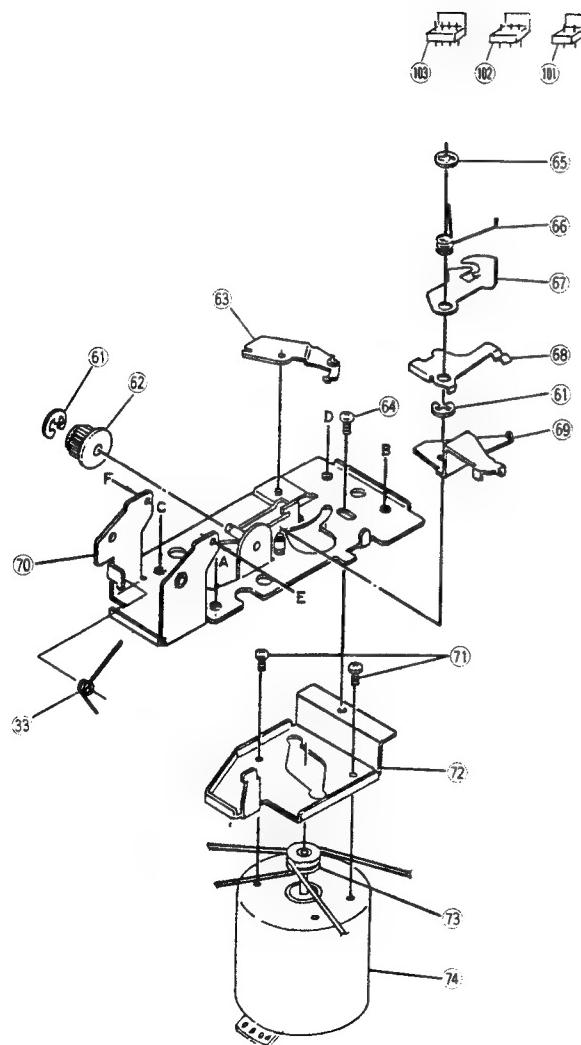
No.	Parts No.	Description		Q'ty	No.	Parts No.	Description		Q'ty
		Parts Code	Parts Name				Parts Code	Parts Name	
1	5708906500	PBC 1280K	Cassette Case	2	50	5708906760	PBE 17072	REW Lever	2
2			Not used!	.	51	5708902130	PBE 16686	Play Lever	2
3	5708906510	PGSL 30A2608K	L.Screw	2	52	5708906770	PBE 6865	H/D Base Spring	2
4	5708906520	PGST20A2005K	T.Screw	4	53	5708902150	PBE 17083	REC Stop Lever	1
5	5708901650	PBE 14715	Keep Plate	4	54	5708902160	PBE 16676	REC Lever	1
6	5708901660	PBE 17014	Bush B	4	55	5708906780	PBE 17137	T.Spring	2
7	5708901670	PBE 16646	S.Reel	2	56	5708906790	PBC 1257	Head Base B	1
8	5708901680	PBE 6602	C.Spring	2	57	5708906800	PBE 5689	Power Arm Spring	1
9	5708906530	MS15RBA2N1K	R/P Head	2	58	5708906810	PBD 0942	Power Arm	2
10	5708906540	PGSN10A2008K	N.Screw	2	58-1	5708906811	PBE 17170	Felt	2
11	5708906550	PGSP10A2003K	P.Screw	2	58-2	5708906812	PBE 17096	Pully	2
12	5708901720	PBE 6604	Azimuth C Spring	2	58-3	5708906813	PBE 17101	Felt Pully	2
13	5708906560	LE15AC1K	E.Head	1	58-4	5708906814	PBE 17098	Shaft	2
14	5708906570	PGSD10A2006K	D.Screw	1	58-5	5708906815	PBE 17094	Stopper	2
15	5708901750	PBE 16647	Tape Sensor	2	58-6	5708906816	PBE 66791(B)	Spring	2
16			Not used!	.	58-7	5708906817	PGWP75x10013	P.Washer	2
17	5708901770	PBE 16643	Interlock arm	1	58-8	5708906818	PBD 1887	Power Arm	2
18	5708901780	PBE 6911	Pinch Spring	2	58-9	5708906819	PBE 17095	Gear	2
19	5708901790	PBE 14927	Bush	2	59	5708902210	MSW 1342NCV	Main Switch	2
20	5708901800	PBE 16641	Idler Gear	2	60	5708902220	PBE 6607	Pause S/E Spring	2
21	5708901810	PBD 1874	Idler Arm	2	61	5708902230	PGR30A	E.Spring	3
22	5708901820	PBE 03163	T.Reel Ass'y	2	62	5708902240	PBE 15524	Gear	3
22-1	5708906580	PBE 16627	T.Reel Stand	2	63	5708902250	PBE 03265	P Connect Plate Lever Ass'y	1
22-2	5708906590	PBE 17752	Felt	2	63-1	5708902251	PBE 17067	P Connect Lever	1
22-3	5708906600	PBE 17263	T.Reel	2	63-2	5708902252	PBE 17077	Shaft A	1
22-4	5708906610	PBE 6606	Spring	2	64	5708902260	PGSD10A2605	D.Screw	2
22-5	5708906620	PBE 17851	T.Reel Gear	2	65	5708902270	PGR30P	CS Spring	1
23	5708901830	PBE 16640	F.Gear	2	66	5708902280	PBE 6688	Connect Spring	1
24	5708906630	PBE 03560	Pinch Arm Ass'y	2	67	5708902290	PBE 17066	Lock Plate	1
24-1	5708901841	PBD 10653	Pinch Arm	2	68	5708902300	PBE 17068	Unlock Plate	1
24-2	5708906640	PBE 17174	Pinch Roller	2	69	5708902310	PBD 10566	Connect Lever	1
24-3	5708901843	PBE 17256	Roller Shaft	2	70	5708906820	PBE 03646	Connect Plate A Ass'y	1
25	5708901850	PBE 17000	Cassette Spring	2	70-1	5708906821	PBD 10557K	Connect Plate A	1
26	5708901860	PBE 6610	Earth Spring	2	70-2	5708902340	PBE 17078	Shaft.B	1
27	5708906650	PGSD15A2606K	D.Screw	6	70-3	5708902350	PBE 17658	Damper Shaft	1
28	5708906660	PBD 01085	Chassis Ass'y	2	71	5708906833	PGSP11A2604K	P.Screw	2
28-1	5708906670	PBB 1146K	Base	2	72	5708906840	PBE 17073K	Motor Bracket	1
28-2	5708901900	PBE 17296	Capstern Metal	4	73	5708906850	PBE 17705	Motor Pully.W	1
29	5708901910	PGWN16X060040S	N.Washer	2	74	5708906860	EG30YD2BK	Motor	1
30	5708906680	PBE 1707K	Button Shaft	2	75	5708906870	PBE 5277	Belt	1
31	5708901930	PBE 2966	Button Lever	10	76	5708902410	PBE 17070	Pause Lever.W	1
32	5708906690	PBE 17076K	Button Bracket.R	1	77			Not used !	.
33	5708901950	PBE 6690	Spring	2	78	5708902530	PBE 17112	Bush C	2
34	5708906700	PBE 03600	Fly Wheel Ass'y	2	79	5708902440	PBE 5239	Belt	1
34-1	5708906710	PBE 17099K	Fly Wheel Ring	4	80	5708902450	PBC 1236	Head Base	1
34-2	5708901963	PBE 17100	Capstern Shaft	2	81	5708902460	PBE 16624	Tape Guide	1
34-3	5708901961	PBD 10567	Fly Wheel W	2	82	5708906880	PBE 03635	Button Bracket L Ass'y	1
34-4	5708906720	PGSL16A2608K	L.Washer	4	82-1	5708906881	PBE 17075K	Button Bracket L	1
35	5708906730	PBE 5276	Belt	1	82-2	5708902472	PBE 17658	Damper Shaft	1
36	5708901980	PGWP21X040013	P.Washer	3	83	5708902480	PBE 17140	Spacer	1
37	5708901990	PBD 1872	Back Plate	2	84	5708902490	PBE 6847	Spring	1
38	5708902000	PBE 6687	Spring	1	85			Not used !	.
39	5708902010	PBE 6618	Spring	1	86			Not used !	.
40	5708902020	PBE 16644	Eject Lever	2	87	5708902520	PGWF22A050020	FWasher	2
41	5708902030	PBE 6831	Auto Stop Spring	2	88	5708906890	PBE 17300	Switch Plate	1
42	5708902040	PBE 16619	S.Arm	2	89	5708906890	PGSD10A2004K	D.Screw	1
43	5708906740	PBE 6617	Function Spring	2	90	5708902540	PBE 2969	Button Lever.R	1
44	5708902060	PBE 1873	Function Lever	2	91	5708902210	LSA 1119P	Leaf Switch	1
45	5708902070	PBE 16625	Pause Arm	1	92	5708906910	PBE 17501	Spacer	3
46	5708902080	PBE 16681	Pause Lever	2	93	5708902620	PBE 3084	Lug Plate	2
47	5708902090	PBE 16680	S.E Lever	2	94			Not used !	.
48	5708902100	PBE 17071	FF Lever W	2	95			Not used !	.
49	5708906750	PBE 6614	FF REW Lever W	2	96	5708906920	PBE 14710	Lug Plate	1

## ***Exploded View of Deck Mechanism (II)***

No.	Parts No.	Description		Q'ty
		Parts Code	Parts Name	
97	4358502260	.	Connector, Ass'y 2P	1
98	4358503260	.	Connector, Ass'y 3P	1
99	4358503261	.	Connector, Ass'y 3P	1
100	4358504001	.	Connector, Ass'y 4P	1
101	4428517510	.	Connector, Plug 2P	1
102	4428517610	.	Connector, Plug 3P	2
103	4428517710	.	Connector, Plug 4P	1

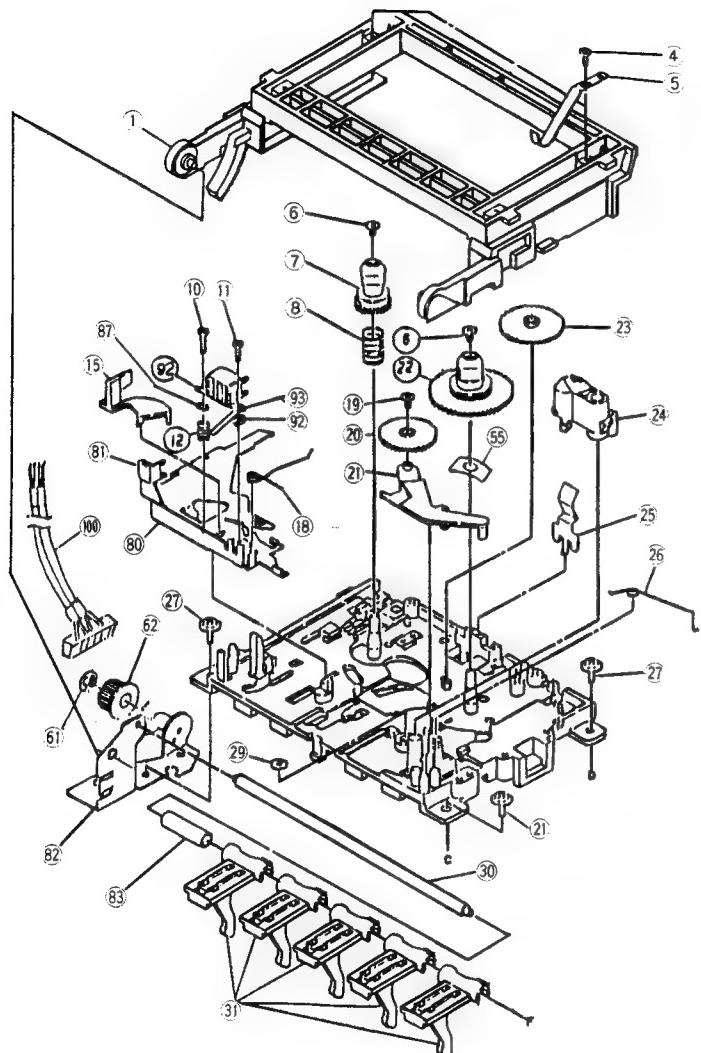


### *Exploded View of Deck Mechanism (III)*



## Electrical Parts List

PRODUCT SAFETY NOTICE: Products marked with  $\Delta$  have special characteristics important to safety. If you replace any of these components, carefully read the product safety notice of this manual. Don't degraded the safety of the product through improper servicing. This manual is based on DD2010C, so use carefully note for remark. Resistors & Capacitors tolerance; D ( $\pm 0.5\%$ ), J ( $\pm 5\%$ ), K ( $\pm 10\%$ ), M ( $\pm 20\%$ ), Z (+80%, -20%)



Ref. No.	Part No.	Description	Remark
D401	2058306101	1N4148	
D501	2058306101	1N4148	
D502	2258106100	1N4002	
D701-D708△	2258106100	1N4002	
D709	2258593105	Zener 6.2V	
D710	2058306101	1N4148	
D711	2258106100	1N4002	
D712	2258593104	Zener 5.6V	
D713-D716	2058306101	1N4148	
D717	2258106100	1N4002	
D718-D721	2058306101	1N4148	
<b>IC's</b>			
IC101/IC201	2168206106	KIA6295S OP amp	
IC301	2168011134	KIA1270NT Dolby BC	
IC301	2168011133	KIA1236 Dolby B	
IC401/IC301	2168206106	KIA6556S OP amp	
IC701	2168602101	MC7808 Regulator	
IC702	2168602102	MC7908 Regulator	
IC703	2138001103	GD4027B Switching	
<b>Relay</b>			
RELAY501	5528001020	RY-12W-K	
Resistors: All resistors are 1/5W carbon film ±5% tolerance, unless otherwise specified.			
R101L/R	3069274970	270kΩ	
R102L/R	306922970	220	
R103L/R	3069232970	82kΩ	
R104L/R	3069472970	4.7kΩ	
R105L/R	30693332970	3.3kΩ	
R106L/R	3069332970	3.9kΩ	
R107L/R	30693333970	33kΩ	
R108L/R	3069103970	10kΩ	
R201L/R	3069100970	100	
R202L/R	3069274970	270kΩ	
R203L/R	306922970	220	
R204L/R	3069232970	82kΩ	
R205L/R	3069472970	4.7kΩ	
R206L/R	3069332970	3.3kΩ	
R207L/R	3069332970	3.9kΩ	
R208L/R	306922970	2.2kΩ	
R209L/R	30693333970	33kΩ	
R301L/R	30696833970	68kΩ	Domestic
R302L/R	3069103970	10kΩ	
R303L/R	·	Not used!	
R303L/R	306924970	220kΩ	DD1010C
R304L/R	·	Not used!	
R304L/R	3069334970	390kΩ	DD1010C
R305L/R	·	Not used!	
R305L/R	3069472970	4.7kΩ	DD1010C
R306L/R	3069342970	2.4kΩ	
R307L/R	30696823970	6.8kΩ	
R308L/R	30692233970	22kΩ	
R309L/R	3069561970	560Ω	
R310L/R	30692233970	22kΩ	
R310L/R	30693333970	33kΩ	DD1010C

Ref. No.	Part No.	Description	Remark
(R310L/R)	30692433970	24kΩ for DD2010C only	Domestic
R311L/R	3069222970	2.2kΩ	
R311L/R	3069122970	1.2kΩ	DD1010C
R312L/R	3069512970	5.1kΩ	
(R312L/R)	30691533970	15kΩ	
R313L/R	3069472970	4.7kΩ	
R314	3069183970	18kΩ	
R315L/R	·	Not used!	
(R315L/R)	3069472970	4.7kΩ	DD1010C
R401L/R	30695332970	3.3kΩ	
R402L/R	3069152970	1.5kΩ	
R403L/R	3069222970	2.2kΩ	
R404L/R	30695332970	3.3kΩ	
R405L/R	3069522970	6.2kΩ	
R406L/R	3069102970	1kΩ	
R407L/R	30695633970	56kΩ	
R408L/R	3069472970	4.7kΩ	
R409L/R	3069103970	10kΩ	
R410L/R	30695622970	5.6kΩ	
R411L/R	3069101970	100Ω	
R412L/R	3069522970	82Ω	
R413L/R	3069103970	10kΩ	
R414L/R	·	Not used!	
R415L/R	·	Not used!	
R416L/R	3069752970	7.5kΩ	
R417L/R	3069121970	120Ω	
R418L/R	3069181970	180Ω	
R419L/R	3069752970	7.5kΩ	
R420L/R	·	Not used!	
R421L/R	3069123970	12kΩ	
R422L/R	3069322970	82Ω	
R423L/R	3069322970	82Ω	
R424L/R	3069101970	100Ω	
R501	3069100970	100	
R502/R503	30693333970	33kΩ	
R504/R505	3069103970	10kΩ	
R506	3069222970	8.2kΩ	
R507	3069472970	4.7kΩ	
R508	3069123970	120Ω	
R509/R510	3069103970	10kΩ	
R511	30693333970	33kΩ	
R701	3069152970	1.5kΩ	
R702	3069124970	120kΩ	
R703	3069322970	3.3kΩ	
R704	3069103970	10kΩ	
R705	3069152970	1.5kΩ	
R706	3069222970	220Ω	
R707	3069471970	470Ω	
R708	30693322970	3.9kΩ	
R709	3069202970	2Ω	
R710	3069152970	1.5kΩ	
R711	3069472970	4.7kΩ	
R712/R713	3069103970	10kΩ	
R714	3069222970	220Ω	
R715	30695622970	5.6kΩ	
R717	3069102970	1kΩ	
R801L/R	3069202970	2Ω	
R802L/R	30693322970	3.9kΩ	
R803L/R	30694733970	470Ω	

Ref. No.	Part No.	Description	Remark
R804L/R	3069100970	100	
R805L/R	3069103970	10kΩ	
R806L/R	3069472970	4.7kΩ	

Variable Resistors			
VR101L/R	3248020343	Semi 20k, B	
VR201L/R	3248020343	Semi 20k, B	
VR401L/R	3248020343	Semi 20k, B	
VR501/VR502	324805043	Semi 50k, B	
VR503L/R	324801043	Semi 100k, B	
VR701	324802043	Semi 2k, B	

Transistors			
O101L/R	2208622108	DTC14TS NPN	
O102L/R	2208622108	DTC14TS NPN	
O201L/R	2208622108	DTC14TS NPN	
O202L/R	2208606112	KTD1302S NPN	
O301L/R	·	Not used!	
(O301L/R)	2208606104	KTC1815Y NPN	
O302L/R	2208622108	DTC14TS NPN	
O303L/R	2208622108	DTC14TS NPN	
O304L/R	2208606112	KTD1302S NPN	
O401L/R	2208606112	KTD1302S NPN	
O402L/R	2208622108	DTC14TS NPN	
-O415L/R	·		
O501/O502	2208606114	KMPS A06 NPN	
O503/O504	2208622106	DTC14YS NPN	
O505/O507	2208622108	DTC14TS NPN	
O508/O705	2028406124	2SB1366Y PNP	
O509	2208622106	DTC14YS NPN	
O510	2208622106	DTA114YS PNP	
O701	2208622108	DTC14TS NPN	
O702	2208622105	DTA114YS PNP	
O703/O704	2208622106	DTC14YS NPN	
O705	·	Not used!	
O706	2208606104	KTC1815Y NPN	
O707/O708	2208622106	DTC14YS NPN	

#### Other

GND1	4235006810	Terminal GND	
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Ref. No.	Part No.	Description	Remark
SLT902	4428525400	Plug 6P, Hold	
(SLT902)	4119205226	Slat Wire 6P 220mm	
SLT903	4428525410	Plug 7P, Hold	
(SLT903)	4119207286	Slat Wire 7P 280mm	

#### Diode

D911	2058306101	1N4148	
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#### LED's

D901L/R	2371124501	SLR-34-YCD, Yellow	
D904L/R	2371124501	SLR-34-URC, Red	
D905L/R	2371124501	SLR-34-URC, Red	
D97	2371124501	SLR-34-URC, Red	
D908-D909	2371124501	SLR-34-YCD, Yellow	
D910	2371124501	SLR-34-YCD, Yellow	
(D910)	·	Not used!	DD1010C

#### IC's

IC901L/R	2168022114	BA6124 LED Level meter	
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#### Resistors

R501L/R	30692433970	24kΩ	
R502L/R	3069103970	10kΩ	
R503L/R	3069103970	10kΩ	
R504L/R	3069152970	1.5kΩ	
R505L/R	3069152970	1.5kΩ	
R506L/R	3069822570	8.2kΩ	
R507	3069152970	1.5kΩ	
R508	30692233970	22kΩ	
R509	306981970	680Ω	
R511	3069102970	1kΩ	
R512	3069103970	10kΩ	

Domest

#### Power Board 4002318720

##### Others

F1001	5508201330	Fuse, NB 300mA/250V	Domestic
F1002	5508201205	Fuse, T 1A/250V	
F1002	5508201090	Fuse, NB 150mA/250V	
CNT1001	4428525790	Plug AC 3P	

#### Mic. Board 4002318730 (Domestic only)

##### Capacitors

C901L/R	3479247971	Electric SA 4.7μF	50V	M	
C902L/R					

## Mechanical Parts List (Cabinet & Chassis)

Ref. No	Part No.	Description	Remark
<b>Connectors</b>			
SLT601	4428525380 4119204246	Plug 4P, Hold Slat Wire 4P 240mm	
<b>IC</b>			
I0801	2168206106	KIA6259S OP amp	
<b>Resistors</b>			
R601	3069561970	560Ω	
R602	3069332970	3.9kΩ	
R603	3069632970	68kΩ	
R604	3069152970	1.5kΩ	
R605	3069472970	4.7kΩ	
R606	.	Not used!	
R607	3069182970	Not used!	
R607	3069182970	1.8kΩ	DD1010C

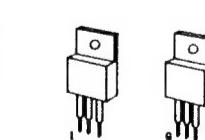
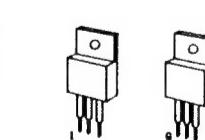
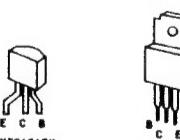
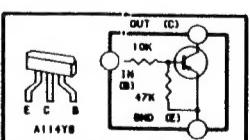
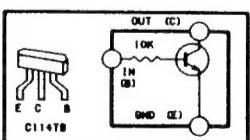
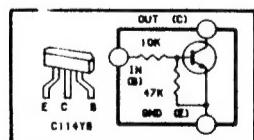
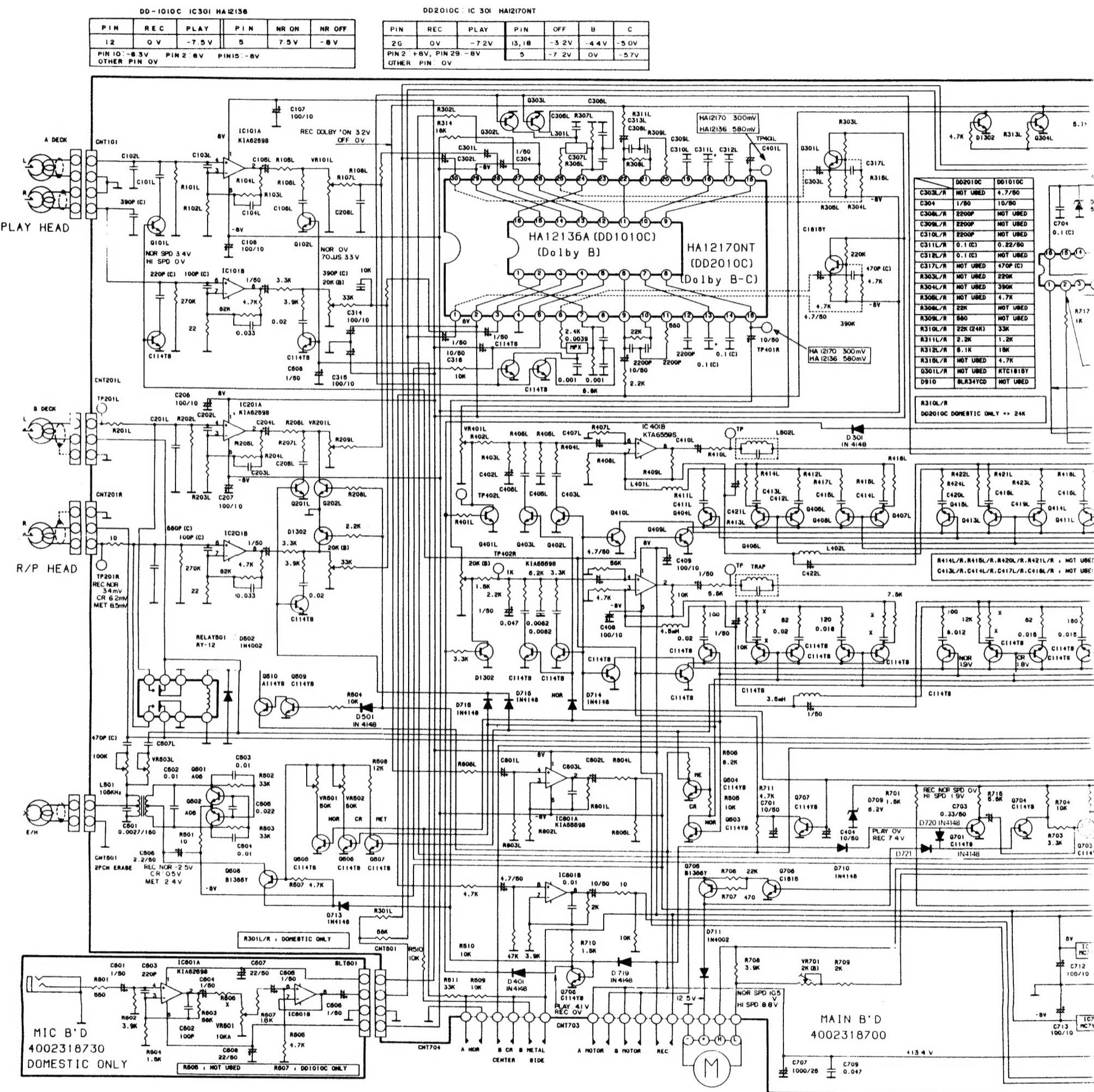
### H/P Board 4002318740

SLT701	4428525370	Plug 3P, Hold	
SLT701	4119203306	Slat Wire 3P 300mm	
SLT702	4428525400	Plug 6P, Hold	
SLT702	4119202626	Slat Wire 6P 280mm	
<b>Others</b>			
TRANS1	2828076907 2828076xxx	Transformer Power 230V 50Hz Transformer Power 100V/220V 60Hz	Domestic

No.	Description	Part No.	Q'ty	Remark	No.	Description	Part No.	Q'ty	Remark
1	Panel Front, Black	048501018311	1		140	Chassis Back, Black	046102028671	1	F
1	Panel Front, Black	048501018312	1	DD1010C	41	AC Power Cord, Black	4308001810	1	Domestic
2	Badge	04853032511	1	Domestic	41	AC Power Cord, Black	4308005710	1	A,B
(2)	Badge, Sherwood	04853031911	1		41	AC Power Cord, Black	4308002010	1	C,D,F
3	Spring	6555004380	1		41	AC Power Cord, Black	4308006010	1	E
4	Button Power	8545074310	1		42	Jack RCA 4P	4438103110	1	
5	Door Deck, A	04853004311	1		43	Side Frame, Right	6123620120	1	
6	Door Deck, B	04853004411	1		44	Cover Bottom	6122416010	1	
7	Door Window, A	048555032011	1		45	Foot, Rear	8033101610	2	A
7-1	Door Window, B	048555032012	1		46	VR P.C. Board	4002318710	1	
8	Button Cap, C	8545074610	1		47	Switch Push, 2 Key	4628057610	2	
9	Button Cap, B	048545074511	1		47	Switch Push, 2 Key	4628057710	1	DD1010C
10	LED Window	048555031111	1		48	VR 50KA×2	3208050510	1	
10	LED Window	048555031111	1	DD1010C	49	LED Holder	60430008210	1	
11	Inlay	048535030811	1		49	Cord RCA, 2P for Line In/Out	4328200510	2	
11	Inlay	048535030812	1	DD1010C	49	Cord RCA, 1P for Remote	4322204510	1	
12	Diffuser	8535030710	1						
13	Knob Rotary	048543030011	1						
(13)	Knob Rotary, B	048545074811	1	Domestic					
14	Button CAP, A	048543027611	1						
15	Button CAP, D	048543027711	1	Domestic					
16	Button Push	8545074710	4						
17	Tape Counter	5318002910	1						
18	Bracket Counter	6505000530	1						
19	Belt	7165000610	1						
20	Button Deck, REC	048543027812	1						
21	Button Deck, Play	048543027812	2						
(21)	Button Deck, Stop/EJ	048543027813	2						
(21)	Button Deck, Pause	048543027814	2						
(21)	Button Deck, NEW	048543027815	2						
(21)	Button Deck, F/F	048543027816	2						
22	Leaf Switch	4646000610	3						
23	Cover Mecha	048555030721	2						
24	Deck Mecha	5708000510	1						
25	P.C. Board Power	4002218720	1						
26	Jack Phone, Gold	4438000510	1						
27	Switch Power	4528035210	1						
28	Shield Phone	6165136410	1						
29	Cover Top, Black	046122020311	1						
30	P.C. Board	4002218720	1						
31	AC Socket, Black	4448003010	1	Except A					
32	AC Outlet, Black	4448003110	1	A					
(32)	AC Outlet, Black	4448100410	1	Domestic					
(32)	AC Outlet, Black	4448103610	1	C,D,F					
33	Side Frame, Left	6122530610	1						
34	Foot, AL Ring	046033101711	4	Domestic					
(34)	Foot, Gold	046033101611	2(4)	A,B,C,D,E,F					
35	Transformer Power	2828079807	1	A					
36	P.C. Board Main	4002218700	1						
37	Heatsink Regulator TR	7505206120	1						
38	Heatsink Regulator TR	7505206110	2						
39	Remote Jack, 2P	4438105010	1						
40	Chassis Back, Black	046102028611	1	Domestic					
(40)	Chassis Back, Black	046102028621	1	A					
(40)	Chassis Back, Black	046102028631	1	B					
(40)	Chassis Back, Black	046102028641	1	C					
(40)	Chassis Back, Black	046102028651	1	D					
(40)	Chassis Back, Black	046102028661	1	E					

**A****B****C****D**

## Schematic Diagram DD-1010C/2010C



**D****E****F****G**

## Schematic Diagram

DD-1010C/2010C

